

1     **WHAT IS CLAIMED IS:**

2     1.     A system for dynamically delivering service applications to a user of a mobile  
3     computing device, comprising:

4             a proximity networking server (PNS) having an associated proximity zone, the

5                     PNS comprising:

6                     an access module for communicating wirelessly within the associated  
7                     proximity zone,

8                     a registry of one or more service applications, each service application  
9                     having one or more associated GUI components, wherein the GUI  
10                     components are configured to be executable on a mobile  
11                     computing device;

12                     wherein the PNS is configured to expose said one or more service  
13                     applications to mobile computing devices within the associated  
14                     proximity zone

15             a client application executable on a mobile computing device,

16                     wherein the client application is operable to establish a wireless  
17                     connection between the PNS and the mobile computing device  
18                     when the mobile computing device is located within the proximity  
19                     zone,

20                     wherein the client application is configured to retrieve a list of exposed  
21                     services from the PNS, and

22                     wherein the client application is configured to automatically download and  
23                     execute the associated GUI component of an exposed service  
24                     application in response to a request by the user to access said  
25                     exposed service application, and

26                     wherein the exposed service application is executed on the PNS, but is  
27                     accessible to the user through the associated GUI component  
28                     executing on the mobile computing device.

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30     2.     The system of claim 1, wherein said wireless connection utilizes the UPnP  
31     protocol.

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2 3. The system of claim 1, wherein the associated GUI component allows the user to  
3 utilize the exposed service application by using remote procedure calls sent from the  
4 client application to the PNS.

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6 4. The system of claim 3, wherein the PNS further comprises a translation module  
7 for translating RPCs received from the client application into the appropriate format for  
8 use by the exposed service application, and to translate results from the exposed service  
9 application into an output format readable by the associated client GUI component.

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11 5. The system of claim 1, wherein all downloaded GUI components are deleted from  
12 the mobile computing device when the mobile computing device leave said associated  
13 proximity zone.

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15 6. A method for dynamically providing service applications to mobile computing  
16 devices in a proximity networking framework, the proximity networking framework  
17 comprising: a PNS having an associated proximity zone, the PNS operable to establish a  
18 wireless data connection with a mobile computing device located within said associated  
19 proximity zone, the method comprising the steps of:

20 registering a service application with the PNS, referred to hereinafter as registered  
21 service application, wherein the step of registering the service application  
22 with the PNS further comprises:  
23 registering an execution component of a service application with the PNS,  
24 the execution component operable to be executed by the PNS to  
25 provide the functionality of the service application,  
26 registering at least one associated GUI component of said registered  
27 service application with the PNS, the GUI component configured  
28 to be executed by a mobile computing device to provide a user  
29 interface to the execution component, and

1 exposing said registered service application to said mobile computing device  
2 coming into said associated proximity zone, referred to hereinafter as the  
3 exposed service application;  
4 providing to said mobile computing device the UI component of the exposed  
5 service application;  
6 executing the execution component of the exposed service application on the  
7 server; and  
8 permitting the mobile computing device to utilize the executing exposed service  
9 application through the GUI component executing on the MCD.  
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11 7. The method of claim 6 further comprises registering an associated access profile  
12 of said registered service application with the PNS, and wherein said associated access  
13 profile is used to determine whether said registered service application should be exposed  
14 to said mobile computing device.  
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16 8. The method of claim 6 further comprising retrieving information about MCD or  
17 the user of the MCD, referred to hereinafter as retrieved information and using said  
18 retrieved information to determine whether said registered service application should be  
19 exposed to said mobile computing device.  
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21 9. The method of claim 6 further comprising retrieving information about MCD or  
22 the user of the MCD, referred to hereinafter as retrieved information and using said  
23 retrieved information to customize said exposed service application to said mobile  
24 computing device.  
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